

DIFFERENTIAL AMPLIFIER WITHOUT COMMON MODE FEEDBACK

ABSTRACT

[0036] A differential amplifier without common feedback is disclosed. The amplifier has a low gain fully differential amplifier and a high gain fully differential amplifier connected in parallel with the low gain fully differential amplifier. When first and second inputs feed into the low and high gain fully differential amplifiers, the low gain fully differential amplifier is used to bias the high gain fully differential amplifier so that a first and second voltage output generated by the high gain fully differential amplifier is stable during a common mode operation without being impacted by fluctuation of the inputs.